

Appl. No. 10/019,767
Amendment dated March 19, 2004
Reply to Office Action of December 22, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously presented): A golf ball comprising a core with an identification device embedded in the core, the identification device comprising a coded element and an aerial wherein the identification device further comprises a diaphragm and wherein at least one of the coded element and the aerial are connected to the diaphragm.

Claim 2 (previously presented): A golf ball according to claim 1, wherein the identification device is a radio frequency identification device.

Claim 3 (previously presented): A golf ball according to claim 1, wherein the coded element is mounted in a plate, with the aerial being formed by a coil arranged on one face of the plate and the diaphragm being arranged on the opposite face of the plate.

Claim 4 (previously presented): A golf ball according to claim 1, wherein the coded element is a chip which is connected to the diaphragm.

Claim 5 (previously presented): A golf ball according to claim 4, wherein the aerial is separately connected to the diaphragm.

Claim 6 (previously presented): A golf ball according to claim 1, wherein the diaphragm is heat conductive.

Claim 7 (previously presented): A golf ball according to claim 6, wherein the diaphragm is steel.

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Claim 8 (previously presented): A method of manufacturing a golf ball incorporating an identification device, the method comprising the steps of:

- molding the identification device in a capsule member,
- placing the capsule member between two parts of a ball core,
- adhering the ball core parts to each other around the capsule member, and
- providing the thus-formed core with a covering, wherein means for protecting the identification device from the effects of impacts are molded in the capsule member.

Claim 9 (previously presented): A method according to claim 8, wherein the core parts form a core of cuboid shape and are subsequently processed to have a spherical shape.

Claim 10 (new): A method of manufacturing a golf ball incorporating a coded element and an aerial, comprising :

- moulding a coded element and an aerial in a capsule member,
- placing the capsule member between two parts of a ball core,
- adhering the ball core parts to each other around the capsule member, and
- providing the ball core with a covering and means for protecting the coded element and aerial from the effects of impacts.

Claim 11 (new): The method of Claim 10, wherein the means for protecting the coded element comprises at least one of a spring and a diaphragm connected to at least one of the coded element and the aerial.

Claim 12 (new): A method of manufacturing a golf ball as claimed in claim 10, comprising the additional step of processing the core parts having a cuboid shape to have a spherical shape.